

Assault Amphibious Vehicle

# AAV7A1 RAM/RS

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The AAV7A1 RAM/RS family of vehicles is the legacy assault amphibious vehicle operating with the U.S. Marine Corps and in countless operations worldwide. The family of vehicles includes the AAVP7A1 RAM/RS Personnel Carrier, the AAVC7A1 RAM/RS Command Variant, and the AAVR7A1 RAM/RS Recovery Vehicle.



BAE Systems has designed the AAV to be fully amphibious with all vehicle systems optimized for improved corrosion resistance, maintainability and sea worthiness. Having earned the reputation as a world class expeditionary work horse, the AAV's rugged durability and superior mobility at sea and on land provides a significant edge in all expeditionary operating conditions.

The vehicles can be equipped with armor protection, as well as configured for command and control, and repair capabilities. The personnel variant can transport 21 combat loaded

troops, a crew of three and their cargo from ship to shore, negotiating ten-foot (3.1 meter) plunging surf, difficult beach conditions, and rough terrain ashore.

The unique boat-like hull design and powerful water jets make the AAV7A1 RAM/RS highly mobile in amphibious environments. A 525 hp turbocharged diesel engine enables excellent sea performance with a speed of 7 knots in the water and up to 45 mph (72 km/h) on land.

The cargo compartment is 13.5 feet (4.0 meters) long, 6.0 feet (1.8 meters) wide and 5.5 feet

(1.6 meters) high; large enough to handle 10,000 lbs (4,536 kilos) of equipment including fuel drums, palletized supplies and supporting equipment.

The AAV firepower comes from an improved .50 cal/MK19 40mm weapon station.

#### Specifications

Crew	Three plus 21 combat troops
Engine	525 hp
<b>Armament</b>	50 cal (M2HB)/ 40mm MG (Mk19)
<b>Cruising speed</b>	
Land	20–30 mph (32-48 km/h)
Water	maximum 45 mph (72 km/h) 8.2 mph (13 km/h)
<b>Cruising range</b>	
Land	200+ miles (321 km)
Water	7+ hours
Slope (longitudinal)	60%
Side slope	40%
Trench crossing	8 feet (244 cm)
Vertical wall crossing	3 feet (91 cm)
Surf	10 feet (304 cm)
Overall length	321 inches (815 cm)
<b>Width</b>	144 inches (366 cm) with armor 129 inches (328 cm) without armor
Height	130 inches (330 cm)

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